



Fermilab

Cryogenic Safety
Subcommittee

CRYOGENIC SAFETY SUBCOMMITTEE MEETING MINUTES^①

CSS members (P=Present, A=Absent, G= Guest)

Arkadiy Klebaner, Chair	P	Phil Pfund, Recorder	P	Bill Cooper	P
Mike Geynisman, Deputy	P	Jim Kilmer	P	Alex Martinez	A
Bob Sanders	P	Rich Schmitt	P		

Date: February 18, 2009

Time: 1:00 am

Place: MW9, "Outfield" Conference Room

Agenda:

1. Approve last meeting notes – all.
2. Updates from panels – all.
3. SRF Pressure at Fermilab – Arkadiy Klebaner
4. A0 1.3 GHz cavity testing – Bill Cooper

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1. Minutes of 12/17/08 were approved.
 2. Minutes of previous meetings are posted at: http://www-esh.fnal.gov/pls/default/esh_home_page.page?this_page=12288.
 3. Jim reported the Mucool and Target panel is waiting for the solenoid magnet to arrive at KTeV. The panel has received some inquiries about other potential review activities, but nothing has been submitted yet.
 4. Phil reported that the Village Panel has had no activity since the last meeting.

^① Note: These minutes are distributed to all members of the CSS via e-mail to obtain their comments. Approval is sought at the next meeting. After approval, these minutes are distributed as indicated and posted to the Web.

5. Bob reported that the MDB panel was informed of ongoing tests in the Horizontal Test Cryostat of the already reviewed Stainless Steel – Titanium Transition Test Assembly. No further reviews or activity by the MDB panel were required.
6. Mike reported no review activity at D0. He reported that the vacuum pumps at NML have been tested successfully. He reported that his review of the ACC39 (3.9 GHz module for DESY) piping note is ongoing.
7. Rich reported there has been no review activity at CHL.
8. Bill reported that the Tevatron panel was contacted last week about reviewing the 1.3 GHz cavity testing planned for A0. This is discussed in greater detail in item #10 below.
9. Arkadiy reported on the SRF cavity helium vessel pressure safety work. The panel has met several times, most recently on December 18th. They have reached the conclusion that RF cavities can not meet the ASME Code, but can be accommodated under 10CFR851. The panel is creating a new Fermilab policy, ESH5032.2, which Arkadiy distributed in draft form. The panel will meet next week to discuss and hopefully finalize the draft.
10. Bill led the discussion on the request his panel received for 1.3 GHz cavity testing at A0. Previous cavities tested in similar fashion at A0 were small enough to be excluded from ASME Code consideration. The proposed testing at A0 present difficulties similar to those being addressed by the SRF pressure safety panel (item #9 above). During the discussion it was proposed that perhaps a Director's exception could be sought by the A0 test team using the current draft of ESH5032.3 as justification. However, as far as we know, the A0 test team does not likely have the material property testing that will be required by ESH5032.3. Therefore the instructions to the review panel are that the A0 test team seeks a Director's exception on the basis of the technical documentation they have generated. Furthermore, it was recommended that the Director and the chairman of the Lab Safety Committee, Bruce Chrisman, be advised that the A0 exception request and a new safety policy, ESH5032.3 are being prepared.
11. Mike reported on his efforts to use one of the Cryogenic Engineering Department's projects as a test bed for the use of Team Center Engineering as a document management system. He reported that it is still very difficult to use and recommended against wholesale adoption of the system at this time. Furthermore, the software must be installed on each user's work station since a web interface is not yet available. He will continue to work with Tony Metz to develop a specific matrix of attributes for the cryogenic safety and engineering documents to be used for uploading and managing documents with Team Center Engineering.

12. Bill reported he has good responses to the ESH5064 draft and can proceed to a final version.
13. The meeting was adjourned.

Next meeting: Regular subcommittee meetings are scheduled for the third Wednesday on alternating months. The next meeting is scheduled for April 15, 2009.

Minutes drafted by: Philip Pfund, Recording Secretary pfund@fnal.gov
Minutes approved by: Committee